

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: markspencer

Timestamp: [year=2010; month=3; day=19; hr=9; min=8; sec=23; ms=805;]

=====

Application No: 10743975 Version No: 3.0

Input Set:

Output Set:

Started: 2010-03-10 14:29:04.691
Finished: 2010-03-10 14:29:08.161
Elapsed: 0 hr(s) 0 min(s) 3 sec(s) 470 ms
Total Warnings: 49
Total Errors: 0
No. of SeqIDs Defined: 49
Actual SeqID Count: 49

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)

Input Set:

Output Set:

Started: 2010-03-10 14:29:04.691
Finished: 2010-03-10 14:29:08.161
Elapsed: 0 hr(s) 0 min(s) 3 sec(s) 470 ms
Total Warnings: 49
Total Errors: 0
No. of SeqIDs Defined: 49
Actual SeqID Count: 49

Error code Error Description

This error has occurred more than 20 times, will not be displayed

SEQUENCE LISTING

<110> Davydova, Elena K.

Rothman-Denes, Lucia B.

Dahl, Gary A.

Gerdes, Svetlana Y.

Jendrisak, Jerome J.

<120> Target-Dependent Transcription Using Deletion Mutants of N4 RNA Polymerase

<130> EPICEN-09587

<140> 10743975

<141> 2003-12-23

<150> US 60/436,062

<151> 2002-12-23

<150> US 10/153,219

<151> 2002-05-22

<150> US 60/292,845

<151> 2001-05-22

<160> 49

<170> PatentIn version 3.5

<210> 1

<211> 10506

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1

atgtcagttt ttagatagact ggctgggttc gcagacagcg taaccaatgc aaagcaagg 60

gacgtctcta ctgcaaccgc ccagaagaaa gctgaacaag gtgtcactac tcctcttgg 120

tctcctgatg ctgcttatca aatgcaagct gcccgtactg gtaatgttgg ggctaatgca 180

tttgaaccag ggacagtgc atcagatttc atgaatctga ccccaatgca aatcatgaaat 240

aagtatgggg ttgagcaagg cttacaactt atcaatgctc gtgctgatgc agggaaaccag 300

gtattcaatg attcagttac tacaagaact cctggggaaag aactggggga tattgctact 360

ggtgttggcc ttgggtttgt taataccctt gggggcattg gtgtcttgg ggcaggctta 420

ctcaacgatg atgcagggtgc tttgttgc caacaattga gtaagttaa tgatgctgtt 480

catgctaccc aaagccaggc attacaagat aaacgtaagc tctttgctgc tcgtaactta 540

atgaatgaag tagagagtga acgtcagta caaacagata agaaagaagg cactaatgac 600
atagtagctt ccttatctaa atttggacgt gatttgttag gttcaattga gaatgctgct 660
caaactgact ctattatttc tgatgggtta gcagaagggg taggttctct attaggtgct 720
ggtcctgtat taaggggtgc atcttactg ggtaaagcag ttgttccagc aaatacttt 780
cgtagtgctg cattggctgg tgctattgat gcaggtactg gtactcagtc actggctcg 840
attgcctcta ctgttaggtag agctgcaccg ggtatggttg gtgttggtgc aatgaaagct 900
ggtggtgcat accaacaac tgctgatgaa attatgaaga tgagtcttaa agacttagag 960
aagtctcctg tttatcagca acatattaaa gatggatgt cccctgaaca ggctcgctcg 1020
cagactgcat ctgaaactgg tcttactgct gctgctattc aattacctat tgctgctgca 1080
accggtcctc tggtatcccg tttgagatg gtcctttcc gtgctggctc tttaggtgct 1140
taggtatga accttgccccg tgaaacagtg gaagaaggtg ttcagggtgc tacaggccaa 1200
ctggctcaga atattgcaca gcaacaaaac attgataaga accaagacct gcttaaaggt 1260
gtcgggtacac aggctggttt aggtgctctt tatggctttg gttctgctgg tggtgtacag 1320
gctccggctg gtgctgctcg tttagcaggt gctgcaactg ctccctgtatt gcgtaccaca 1380
atggctggtg ttaaagctgc tggtagtgta gcaggttaagg ttgtttctcc tattaagaat 1440
acttttagtag ctcggttga acgggttatg aagcagaatg aagaagcatc tcctgttgct 1500
gatgactatg ttgcacaggc agcacaagaa gctatggctc aagcaccaga agcagaagtt 1560
actattcgta atgctgttga agcaactgat gctactccag aacagaaagt tgcagcacac 1620
cagtagttt ctgacttaat gaatgctact cgtttaatc ctgaaaatta tcaggaagca 1680
ccagagcata ttcgtaatgc tggtagctgg tctactgacc aagtacaggt tattcagaag 1740
ttagcagact tagtaaacac attagatgaa tctaattcctc aagcactgat ggaagctgca 1800
tcttatatgt atgatgctgt ttcagagttt gagcagttca ttaaccgtga ccctgctgca 1860
ctggatagca ttccctaaaga ttctccggct attgagttac tcaaccgtta tacgaatctg 1920
acagctaata ttcaaaaaac accaaaaagta attgggtgcac tgaatgttat taatcgaatg 1980
attaatgaat ctgctcagaa tggttcttg aatgtgactg aagaatccag tccacaggaa 2040
atgcagaacg tagcatttagc tgctgaagta gcccctgaaa agctcaatcc agagtctgta 2100
aatgttgttc ttaaacatgc tgctgatggt cgtattaaac tgaataatcg ccagattgct 2160
gcccctccaga atgctgctgc aatcctgaag ggggcacggg aatatgatgc agaagctgcc 2220
cgtcttggat tacgtcctca agacattgtg agtaaacaga taaaaacgga tgagagcaga 2280

actcaggaag gacaatactc tgcgttgcaa catgcgataa ggattcggtc tgcgtataac 2340
tctggtaatt tcgagttggc ctccgcttac ctgaacgact ttatgcgtt cgcccagcac 2400
atgcagaata aggttggagc gttgaatgag catcttgtt cggggaatgc ggataagaat 2460
aagtctgtcc actaccaagc tcttactgct gacagagaat gggttcgtag ccgtaccgga 2520
ttgggggtca atccctatga cactaagtcg gttaaatttgc cccagcaagt tgctttgaa 2580
gcgaaaacgg tagcggatat tgctaattgcc ctgcgttcgg cttacccgga actgaaggtc 2640
agtcatataa aagttactcc attggattca cgtcttaacg ctccctgctgc tgaggtggtc 2700
aaggcattcc gtcaaggcaa tcgagacgtt gcttcttctc aaccgaaagc tgactccgtg 2760
aatcaggtaa aagaaactcc ttttacaaaaa caggaaccag ttacatctac tgtacagact 2820
aagactcctg ttagtgaatc ttttaaaaca gaacctacta ctaaagagtc tagcccacag 2880
gctataaaaag aacctgtgaa ccagtctgaa aaacaggatg ttaaccttac taatgaggac 2940
aacatcaagc aacctactga atctgttaaa gaaactgaaa ctttacaaaa agaaagtaca 3000
gttacagaag aattaaaaga aggtattgtat gctgtttacc cttcatgggt aggtactgct 3060
gattctaaag cagagggtat taagaactat ttcaatttgt ccttacctt accagaagaa 3120
cagaaatccc gtactgttgg ttcaagca cctctaaaag atgtagccca agctctgtct 3180
tctcggtctc gttatgaact ctttactgag aaagaaactg ctaaccctgc ttttatggg 3240
gaagttatta agcgatacaa agaactcatg gaacatgggg aaggtattgc tgatatttt 3300
cgctccccgtc tggcttaagtt ccttaacact aaggatgtt gtaaacgttt tgctcaaggt 3360
acagaagcca accgttgggt aggtggtaag ttacttaaca ttgttgagca ggatggggat 3420
acctttaagt acaacgaaca attgctacag actgctgtat tagcaggctc tcaatggaga 3480
cttactgcta ccagcaatac tgctatcaaa gatgcggaaatg atgttgcgtc tattactgg 3540
attgaccaag ctctgctgcc agaagggtta gtagagcaat ttgatactgg tatgacactc 3600
actgaagcag ttagttccct ggctcagaaa attgagttt actggggatt atctcgtaat 3660
ccaaatgctc cattgggcta taccaaaggc atccctacag caatggctgc tgaaattctg 3720
gctgcatttg tagagtctac tgatgttgc gagaacatcg tggatatgtc agaaattgac 3780
ccagataaca agaagactat tggtctgtac accattactg aactggattc ctgcgaccca 3840
attaatagct tccctactgc tattgaagaa gctgttttag tgaatcctac agagaagatg 3900
ttctttgggtg atgacattcc tcctgttagct aatactcagc ttctgttgc tgctgttgc 3960

aataactccag aacagaaggc tgcattgaaa gcagagcagg ctacagagt ctatgtacac 4020
accccaatgg ttcaattcta tgagacgtta ggtaaagacc gtattctcg actgatgggt 4080
gctggtactc tgaataaaga gttacttaat gataaccatg ctaaatctct ggaaggtaag 4140
aaccgttcag tagaggactc ttacaaccaa ctgttctccg tcattgagca ggtaagagca 4200
cagagcgaag acatctctac tgtacctatt cactatgcat acaatatgac ccgtgttggt 4260
cgtatgcaga tggtaggtaa atacaatcct caatcagcca aactggttcg tgaggccatc 4320
ttacctacta aagctacttt ggatttatcg aaccagaaca atgaagactt ctctgcattc 4380
cagtttaggtc tggctcaggc attggacatt aaagtccata ctatgactcg tgaggttatg 4440
tctgacgagt tgactaaatt actggaaggt aatctgaaac cagccattga tatgatggtt 4500
gagtttaata ccactggttc cttaccagaa aacgcagttg atgttctgaa tacagcatta 4560
ggagatagga agtcattcgt agcattgtatg gctcttatgg agtattcccg ttacttagta 4620
gcagaggata aatctgcatt tggtaactcca ctgtatgtatg aagcagatgg tgttactaat 4680
ggtccaaatca atgccatgat gctaattgaca ggcggcttgt ttactcctga ctggattcgt 4740
aatattgcca aagggggctt gttcattggt tctccaaata agaccatgaa tgagcatcgc 4800
tctactgctg acaataatga tttatataa gcatccacta atgctttgat ggaatcgttg 4860
ggtaagttac gtagtaacta tgcctcta atgcctattc agtctcagat agacagtctt 4920
ctttctctga tggatttggt tttaccggat attaatcttg gtgagaatgg tgctttagaa 4980
cttaaacgtg gtattgctaa gaacccactg actattacca tctatggttc tggtgctcgt 5040
ggtattgcag gtaagctggt tagttctgtt actgatgcca tctatgagcg tatgtctgat 5100
gtactgaaag ctctgtctaa agacccaaat atctctgctg ctatggcaat gtttggtaaag 5160
caagctgctt cagaagcaca tgcgtaaagaa cttcttgccc gttcctgaa agatatggaa 5220
acactgactt ctactgttcc tggtaaacgt aaaggtgtac tggaaactaca atccacaggt 5280
acaggagcca aaggaaaaat caatcctaag acctatacca ttaagggcga gcaactgaag 5340
gcacttcagg aaaatatgct gcaactcttt gtagaaccac tacgtaatgg tattactcag 5400
actgttaggtg aaagtcgtt gtagtactt gaaacaattac agaaagctac tcagattcaa 5460
tctgttagtgc tggaaagatat gttcaaacag cgagtacaag agaagctggc agagaaggct 5520
aaagacccaa catgaaagaa aggtgatttc cttactcaga aagaactgaa tgatattcag 5580
gcttctctga ataacttagc ccctatgatt gagactgggtt ctcagacttt ctacattgct 5640
ggttcagaaa atgcagaagt agcaaattcag gtattagcta ctaaccttga tgaccgtatg 5700

cgtgtaccaa tgagtatcta tgctccagca caggccggtg tagcaggtat tccatttatg 5760
actattggta ctggtgatgg catgatgatg caaactctt ccactatgaa aggtgcacca 5820
aagaataccc tcaaaatctt tgatggatg aacattggtt tgaatgacat cactgatgcc 5880
agtcgtaaag ctaatgaagc tgtttacact tcttggcagg gtaaccctat taagaatgtt 5940
tatgaatcat atgctaagtt catgaagaat gttagattca gcaagctgtc ccctgaagca 6000
ttggaagcaa ttggtaaatac tgctctggaa tatgaccaac gtgagaatgc tactgtagat 6060
gatattgcta acgctgcata tctgattgaa cgtaacttac gtaatattgc actgggtgt 6120
gatattcgtc ataaggtgct ggataaggta aatctgtcca ttgaccagat ggctgctgt 6180
ggtgcctt atcagaacaa cggttaagatt gacctcagca atatgacccc tgaacaacag 6240
gctgatgaac tgaataaact ttccgtgaa gagttagaag cccgtaaaca aaaagtgcgt 6300
aaggctaggg ctgaagtcaa agaagaaaact gtttctgaaa aagaaccagt gaatccagac 6360
tttggtatgg taggcgtga gcataaggca tctgggttgc gtatcctgtc tgctactgct 6420
attcgtaatc tggctaagat tagtaatctg ccatctactc aggtagtac tcttgccggag 6480
attcagaat cactggcagc taaagactat aagattatct acggtagtac tactcagggt 6540
gcagagtatg ctgcgtcagaa gaatgttact gaattgactt ctcaggaaat ggaagaagct 6600
caggcaggtt atatttatgg ctggactaac ttcgatgata agaccattt aatgggttgc 6660
ccatctatgg aaacctcat tcatgaactg gttcatgcct ctacccatgtt ggaagtttat 6720
tccttctatc agggtaatga agtaagccct acttctaagc aggctattga gaaccttgaa 6780
ggtctgtatgg aacagttccg ttctctggat atttccaaag attctccaga aatgagagaa 6840
gcataatgtc atgctattgc aactatcgaa ggtcatttga gtaatggatt tggtgaccca 6900
gctatctcta aagctgctgc tcttaatgag tttatggctt gggggtttgc taaccgtgt 6960
cttgctgcta aacagaagag aacatcttca ctggttcaaa tggtaaaaga tgtttatcag 7020
gctattaaga aattgatttg gggacgtaaa caagctcctg cattgggaga agatatgttc 7080
tccaatctgc tggtaactc tgcaattctg atgcgtagcc aacctacaac tcaggcagta 7140
gctaaagatg gcacactgtt ccatagcaaa gcatatggta ataatgaacg tctgtctcag 7200
ttgaaccaga ctttcgataa actggtaact gattacccctc gtactgaccc agttacagaa 7260
gtagaacgtc gtggcaatgt ggctaatgca ttaatgagtg ctactcgact gggtcgat 7320
gttcagtc tggcttcaa tatgactgct caggaacagt ctgtattcca gatggttact 7380

gctgcattag caactgaagc tgcgattgac ccacatgcta tggctcggtc tcaggaactt 7440
tatacccatg taatgaaaca ccttacggta gagcatttca tggctgaccc tgatagtact 7500
aacccctgctg accgttacta tgctcaacag aaatatgaca ccatctctgg tgctaatctg 7560
gttgaagtag atgccaaagg tagaaccagt ctgttaccta cattcctggg tctggctatg 7620
gttaatgaag aactacgttc aatcattaaa gaaatgcctg tacctaaagc agataagaaa 7680
ttaggaaatg atatagatac tctgcttacc aatgcaggtt ctcaggtat ggaatcttg 7740
aaccgtcgta tggctggta ccagaaagct actaatgttc aggacagtat tgatgcttg 7800
tcagaaacaa tcatggctgc tgcttgaaa cgagagtctt tctatgtgc tgttagcaacc 7860
cctaccggta acttcattga ccgtgctaat cagtagttaa cgatagcat tgaacggta 7920
tctgaaaactg ttattgagaa ggcagataag gtaattgcta acccttctaa tatagctgct 7980
aaagggtttg ctcatctggc taaactgact gctgctattt catctgaaaa acagggtgaa 8040
atagtggctc aggggtttat gactgctatg aaccagggtt aagtatggca acctttccat 8100
gacttagtta atgacattgt tggccgtact aagactaatg ccaatgtcta tgacttaatc 8160
aaattggtta agagccagat ttctcaagac cgtcagcaat tccgtgagca tttacctaca 8220
gtcattgctg gtaagttctc tcgtaaattt actgataaccg aatggtctgc aatgcatact 8280
ggtttaggtt aaacagattt agctgttcta cgtgaaacta tgagcatggc tgaaattttaga 8340
gatttactct cttcatccaa gaaagtgaaa gatgaaatct ctactctggaa aaaagagatt 8400
cagaaccaag caggttagaaa ctggaatctg gttcagaaga aatctaagca actggctcaa 8460
tacatgatta tgggggaagt aggtataaac ctccttcgtt atgcccattgc tattagtcgt 8520
ttgttaggtt aacgtattac taatggtcct gtggcagatg tagctgctat tgataagctc 8580
attactttgt actctctggaa attgatgaat aagtctgacc gtgacctttt gtcagaattt 8640
gctcaatcag aagtggaaagg tatggagttc tccattgtttt atatggttgg tcaacgtact 8700
gaagagatgc gtaaagctaa aggtgataac cgtactctgc tgaatcactt taaaggctat 8760
atccctgttag agaaccagca aggtgtgaat ttgattattt ctgacgataa agagtttgc 8820
aagttaaata gccaatcctt tactcgtatt ggtacttatac aggggagcac tggttccgt 8880
actggttctt aaggttattt cttcagcccc gtagctgccc gtgccttta ctctcagggt 8940
attcttcaga acgttcgttta tactgctggt ggtgtggata ttggactgg ctttacgtta 9000
ggcactatgg ttgctggcg tattactgac aaaccaaccg tagagcgtat taccaaagct 9060
ctggctaaag gtgagcgtgg gctgtacca ctgatgccaa ttataaacag caaaggctcag 9120

gtagttgctt atgaacaatc cggtgaccct aatatgttga agcacctaaa ccaagacaat	9180
cactttgcta agatggttgg tgtatggcgt ggtcgtaagg tggaaagaggc taaaggcaca	9240
cgttttaatg acattctcat tgagcaatta catgctatgt atgagaaaga cattaaagac	9300
tccagtgcta ataaatctca atatgtaaac ctgttaggta aaattgtga cccagtgact	9360
gctgatgcga ttaacctgat gaacatttag actcgtcata aggccgaaga actcttcgg	9420
aaagatgagt tatgggttcg tagggatatg ctgaatgatg cactggcta tcgtgctgca	9480
tctattggtg atgtgtggac cggttaactct cgttggcac ctagcaccct tgatactgtt	9540
aagaagatgt tcctcggtgc attcggtaat aaggcatatc atgttagtaat gaatgctgaa	9600
aataccattc agaacttagt gaaggacgct aagacagtaa ttgttgttaa atctgttga	9660
gtaccggcag ttaacttcct tgctaacatc taccagatga ttggacgtgg tgttcctgtt	9720
aaagatattg ctgtgaacat tcctcgtaag acgtcagaga ttaatcagta tattaaatct	9780
cgtttacgtc agattgtatgc ggaaggcagag ctacgtgctg ctgaaggtaa ccctaattcg	9840
tttcgtaaac ttaaaactga gattcaatct attactgata gtcatcgctg tatgagtatc	9900
tggccttga ttgaagcagg tgagttctct tctattgctg atgctggtat tagtcgtat	9960
gacctgttag tagctgaagg taagattcat gagtacatgg aaaaacttgc taataaactt	10020
ccagaaaaag tacgtaatgc tggccgttac gctcttattg ctaaggacac tgctctgttc	10080
cagggtatcc agaaaacagt agagtattca gactttattg ctaaagccat catctatgat	10140
gatttagtga aacgtaagaa aaaatcttct tctgaagcat taggtcaggt aactgaagag	10200
tttattaact atgacagatt gcctggtcgt ttccgtggct atatggaaag tatgggtctg	10260
atgtggttct acaactttaa aattcggtcc attaaagttg ctatgagcat gattagaaac	10320
aacccagtagc attctctgat tgctacagta gtacctgctc ctaccatgtt tggtaacgta	10380
ggtctaccaa ttcaaggacaa catgctaacc atgctggctg aaggaagact ggattactca	10440
ttaggcttcg gacaaggatt aagagcacct accctcaatc cttggttcaa ccttactcac	10500
taataa	10506

```

<210> 2
<211> 3500
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

```

<400> 2

Met Ser Val Phe Asp Arg Leu Ala Gly Phe Ala Asp Ser Val Thr Asn
1 5 10 15

Ala Lys Gln Val Asp Val Ser Thr Ala Thr Ala Gln Lys Lys Ala Glu
20 25 30

Gln Gly Val Thr Thr Pro Leu Val Ser Pro Asp Ala Ala Tyr Gln Met
35 40 45

Gln Ala Ala Arg Thr Gly Asn Val Gly Ala Asn Ala Phe Glu Pro Gly
50 55 60

Thr Val Gln Ser Asp Phe Met Asn Leu Thr Pro Met Gln Ile Met Asn
65 70 75 80

Lys Tyr Gly Val Glu Gln Gly Leu Gln Leu Ile Asn Ala Arg Ala Asp
85 90 95

Ala Gly Asn Gln Val Phe Asn Asp Ser Val Thr Thr Arg Thr Pro Gly
100 105 110

Glu Glu Leu Gly Asp Ile Ala Thr Gly Val Gly Leu Gly Phe Val Asn
115 120 125

Thr Leu Gly Gly Ile Gly Ala Leu Gly Ala Gly Leu Leu Asn Asp Asp
130 135 140

Ala Gly Ala Val Val Ala Gln Gln Leu Ser Lys Phe Asn Asp Ala Val
145 150 155 160

His Ala Thr Gln Ser Gln Ala Leu Gln Asp Lys Arg Lys Leu Phe Ala
165 170 175

Ala Arg Asn Leu Met Asn Glu Val Glu Ser Glu Arg Gln Tyr Gln Thr
180 185 190

Asp Lys Lys Glu Gly Thr Asn Asp Ile Val Ala Ser Leu Ser Lys Phe
195 200 205

Gly Arg Asp Phe Val Gly Ser Ile Glu Asn Ala Ala Gln Thr Asp Ser
210 215 220

Ile Ile Ser Asp Gly Leu Ala Glu Gly Val Gly Ser Leu Leu Gly Ala
225 230 235 240

Gly Pro Val Leu Arg Gly Ala Ser Leu Leu Gly Lys Ala Val Val Pro
245 250 255

Ala Asn Thr Leu Arg Ser Ala Ala Leu Ala Gly Ala Ile Asp Ala Gly
260 265 270

Thr Gly Thr Gln Ser Leu Ala Arg Ile Ala Ser Thr Val Gly Arg Ala
275 280 285

Ala Pro Gly Met Val Gly Val Gly Ala Met Glu Ala Gly Gly Ala Tyr
290 295 300

Gln Gln Thr Ala Asp Glu Ile Met Lys Met Ser Leu Lys Asp Leu Glu
305 310 315 320

Lys Ser Pro Val Tyr Gln Gln His Ile Lys Asp Gly Met Ser Pro Glu
325 330 335

Gln Ala Arg Arg Gln Thr Ala Ser Glu Thr Gly Leu Thr Ala Ala Ala
340 345 350

Ile Gln Leu Pro Ile Ala Ala Ala Thr Gly Pro Leu Val Ser Arg Phe
355 360 365

Glu Met Ala Pro Phe Arg Ala Gly Ser Leu Gly Ala Val Gly Met Asn
370 375 380

Leu Ala Arg Glu Thr Val Glu Glu Gly Val Gln Gly Ala Thr Gly Gln
385 390 395 400

Leu Ala Gln Asn Ile Ala Gln Gln Asn Ile Asp Lys Asn Gln Asp